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Attorney's Docket No.: 14074-014001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Robert S. Whitehouse
Serial No. : 10/783,995
Filed : February 20, 2004
Title : PHA BLENDS

Art Unit : 1632
Examiner : Unknown

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit references AY-AQQQ listed on the attached form PTO-1449.

Reference "AZ" is a non-English language document. Pursuant to MPEP § 609, Applicants submit an English language abstract corresponding to U.S. Patent 5,821,297 (an English language equivalent patent document) to fulfill the requirement for a concise explanation of relevance for non-English language document "AZ." References "ABB" and "ACC" also are non-English language documents. Pursuant to MPEP § 609, Applicants submit English language abstracts to fulfill the requirement for a concise explanation of relevance for non-English language documents "ABB" and "ACC."

Applicants submit a copy of commonly owned, copending United States Application entitled "PHA Adhesive Compositions," filed on February 20, 2004 and assigned Serial No.: 10/783,958.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Denise A. Rose
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This statement is being filed before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket Number 14074-014001.

Respectfully submitted,

Date: June 22, 2004

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14074-014001	Application No. 10/783,995
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Robert S. Whitehouse	
		Filing Date February 20, 2004	Group Art Unit 1632

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	US 2002/0068810	06/06/2002	Whitehouse et al.			
	AB	Re. 36,548	02/01/2000	Noda			
	AC	4,804,691	02/14/1989	English et al.			
	AD	5,169,889	12/08/1992	Kauffman et al.			
	AE	5,252,646	10/12/1993	Iovine et al.			
	AF	5,312,850	05/17/1994	Iovine et al.			
	AG	5,387,623	02/07/1995	Ryan et al.			
	AH	5,502,116	03/26/1996	Noda			
	AI	5,536,564	07/16/1996	Noda			
	AJ	5,614,576	03/25/1997	Rutherford et al.			
	AK	5,656,367	08/12/1997	Iovine et al.			
	AL	5,658,646	08/19/1997	Takano et al.			
	AM	5,700,344	12/23/1997	Edgington et al.			
	AN	5,711,842	01/27/1998	Kemmish			
	AO	5,753,364	05/19/1998	Rutherford et al.			
	AP	5,753,724	05/19/1998	Edgington et al.			
	AQ	5,853,876	12/29/1998	Takano et al.			
	AR	5,952,405	09/14/1999	Schoenberg et al.			
	AS	6,086,997	07/11/2000	Patel et al.			
	AT	6,290,803	09/18/2001	Maksymkiw et al.			
	AU	6,306,904	10/23/2001	Gordziel			
	AV	6,307,003	10/23/2001	Grigat et al.			
	AW	6,319,352	11/20/2001	Simmler et al.			
	AX	6,365,680	04/02/2002	Edgington et al.			

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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes	Translation No
	AY	0 609 713 A1	08/10/1994	Europe				
	AZ	DE 9304018 (Abstract Only)	10/13/1998	Germany				
	AAA	GB 2 136 003 A	09/12/1984	United Kingdom				
	ABB	JP 57030776 (Abstract Only)	02/19/1982	Japan				
	ACC	JP 83046277 (Abstract Only)	10/15/1983	Japan				
	ADD	WO 95/02649	01/26/1995	WIPO				
	AEE	WO 01/15671 A2	03/08/2001	WIPO				
	AFF	WO 02/05581 A2	07/18/2002	WIPO				
	AGG	WO 02/05581 A3	07/18/2002	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AHH	Avella et al., "Poly(3-hydroxybutyrate)/poly(methyleneoxide) blends: thermal, crystallization and mechanical behaviour", Polymer, Vol. 38, No. 25, pp. 6135-6143 (1997)
	AII	Blümm et al., "Miscibility, crystallization and melting of poly(3-hydroxybutyrate)/poly(L-lactide) blends", Polymer, Vol. 36, No. 21, pp. 4077-4081 (1995)
	AJJ	Chen et al., "Miscibility and morphology of blends of poly(3-hydroxybutyrate) and poly(vinyl butyral)", Polymer, Vol. 42, pp. 8407-8414 (2001)
	AKK	Chiu et al., "Crystallization induced microstructure of crystalline/crystalline poly(vinylidenefluoride)/poly(3-hydroxybutyrate) blends probed by small angle X-ray scattering", Polymer, Vol. 42, pp. 5749-5754 (2001)
	ALL	Choe et al., "Miscibility of poly(3-hydroxybutyrate-co-3hydroxyvalerate) and poly(vinyl chloride) blends", Polymer, Vol. 36, No. 26, pp. 4977-4982 (1995)
	AMM	Chun et al., "Thermal properties of poly(hydroxybutyrate-co-hydroxyvalerate) and poly(ε-caprolactone) blends", Polymer, Vol. 41, pp. 2305-2308 (2000)
	ANN	Class et al., "The Viscoelastic Properties of Rubber-Resin Blends. I. The Effect of Resin Structure", J. Appl. Poly Sci., Vol. 30, No. 2, pp. 805-814 (1985)
	AOO	Class et al., "The Viscoelastic Properties of Rubber-Resin Blends. II. The Effect of Resin Molecular Weight", J. Appl. Poly Sci., Vol. 30, No. 2, pp. 815-824 (1985)
	APP	Class et al., "The Viscoelastic Properties of Rubber-Resin Blends. III. The Effect of Resin Concentration", J. Appl. Poly Sci., Vol. 30, No. 2, pp. 825-842 (1985)
	AQQ	Fujita et al., "Miscibility Between Natural Rubber and Tackifiers. I. Phase Diagrams of the Blends of Natural Rubber with Rosin and Terpene Resins", J. Appl. Poly Sci., Vol. 64, No. 11, pp. 2191-2197 (1997)

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	ARR	Fujita et al., "Effects of Miscibility on Probe Tack of Natural-Rubber-Based Pressure-Sensitive Adhesives", J. Appl. Poly Sci., Vol. 70, No. 4, pp. 771-776 (1998)
	ASS	Fujita et al., "Effects of Miscibility on Peel Strength of Natural-Rubber-Based Pressure-Sensitive Adhesives", J. Appl. Poly Sci., Vol. 70, No. 4, pp. 777-784 (1998)
	ATT	Goh et al., "A completely miscible ternary blend system of poly(3-hydroxybutyrate), poly(ethylene oxide) and polyepichlorohydrin", Polymer, Vol. 40, pp. 5733-5735 (1999)
	AUU	Hay et al., "Crystallisation of poly(3-hydroxybutyrate)/polyvinyl acetate blends", Polymer, Vol. 41, pp. 5749-5757 (2000)
	AVV	Hobbs et al., "The effect of water on the crystallization of thin films of poly(hydroxybutyrate)", Polymer, Vol. 38, No. 15, pp. 3879-3883 (1997)
	AWW	Iriondo et al., "Thermal and infra-red spectroscopic investigations of a miscible blend composed of poly(vinyl phenol) and poly(hydroxybutyrate)", Polymer, Vol. 36, No. 16, pp. 3235-3237 (1995)
	AXX	Iwata, "Role of entanglement in crystalline polymers 1. Basic theory", Polymer, Vol. 43, pp. 6609-6626 (2002)
	AYY	Kim et al., "Miscibility and Pee Strength of Acrylic Pressure-Sensitive Adhesives: Acrylic Copolymer-Tackifier Resin Systems", J. Appl. Poly Sci., Vol. 56, No. 2, pp. 201-209 (1995)
	AZZ	Luo et al., "The effect of molecular weight on the lamellar structure, thermal and mechanical properties of poly(hydroxybutyrate-*co*-hydroxyvalerates), Polymer, Vol. 43, pp. 4159-4166 (2002)
	AAAA	Maekawa et al., "Miscibility and tensile properties of poly (β-hydroxybutyrate)-cellulose propionate blends", Polymer, Vol. 40, pp. 1501-1505 (1999)
	ABBB	McNally et al., "Polyamide-12 layered silicate nanocomposites by melt blending", Polymer, Vol. 44, pp. 2761-2772 (2003)
	ACCC	Miguel et al., "Blends of bacterial poly(3-hydroxybutyrate) with synthetic poly(3-hydroxybutyrate) and poly(epichlorohydrin): transport properties of carbon dioxide and water vapour", Polymer, Vol. 42, pp. 953-962 (2001)
	ADDD	Mizumachi et al., "Theory of Tack of Pressure-Sensitive Adhesive. II", J. Appl. Poly Sci., Vol. 37, No. 11, pp. 3097-3104 (1989)
	AEEE	Nakajima et al., Rheology, Composition, and Peel-Mechanism of Block Copolymer-Tackifier-Based Pressure Sensitive Adhesives", J. Appl. Poly Sci., Vol. 44, No. 8, pp. 1437-1456 (1992)
	AFFF	Ohkoshi et al., "Miscibility and solid-state structures for blends of poly[(*S*)-lactide] with atactic poly[(*R*,*S*)-3-hydroxybutyrate]", Polymer, Vol. 41, pp. 5985-5992 (2000)
	AGGG	Paul et al., "New nanocomposite materials based on plasticized poly(L-lactide) and organo-modified montmorillonites: thermal and morphological study", Polymer, Vol. 44, pp. 443-450 (2003)
	AHHH	Qiu et al., "Melting behaviour of poly(butylenes succinate) in miscible blends with poly(ethylene oxide)", Polymer, Vol. 44, pp. 3095-3099 (2003)
	AIII	Qiu et al., "Miscibility and crystallization of poly(ethylene oxide) and poly(ε-caprolactone) blends", Polymer, Vol. 44, pp. 3101-3106 (2003)
	AJJJ	Qiu et al., "Poly (hydroxybutyrate)/poly(butylenes succinate) blends: miscibility and nonisothermal crystallization", Polymer, Vol. 44, pp. 2503-2508 (2003)
	AKKK	Whitehouse R. S. "Contact Adhesives", Critical Reports on Applied Chemistry, Synthetic Adhesives & Sealants, Chapter 1, Volume 16, edited by WC Wake (1987)
	ALLL	Willett et al., "Processing and properties of extruded starch/polymer foams", Polymer, Vol. 43, pp. 5935-5947 (2002)

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	AMMM	Xu et al., "In situ FTIR study on melting and crystallization of polyhydroxyalkanoates", Polymer, Vol. 43, pp. 6893-6899 (2002)
	ANNN	Yoon et al., "Compatibility of poly(3-hydroxybutyrate)/poly(ethylene-co-vinyl acetate) blends", Polymer, Vol. 39, No. 12, pp. 2479-2487 (1998)
	AOOO	Yoshie et al., "Temperature dependence of cocrystallization and phase segregation in blends of poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-*co*-3-hydroxyvalerate), Polymer, Vol. 42, pp. 8557-8563 (2001)
	APPP	Yuan et al., "Miscibility and transesterification of phenoxy with biodegradable poly(3-hydroxybutyrate)", Polymer, Vol. 39., Vol. 10, pp. 1893-1897 (1998)
	AQQQ	Zhang et al., "Miscibility, melting and crystallization behavior of two bacterial polyester/poly(epichlorohydrin-*co*-ethylene oxide) blend systems", Polymer, vol. 41, pp. 1429-1439 (2000)

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